



JFW

## PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :  
*Steven L. Edwards et al.* : Examiner: UNKNOWN  
U.S. Serial No. 10/806,792 : Group Art Unit: 1731  
Filed March 23, 2004 :  
Docket No. 2196-1A (FJ-99-41A) :  
For: WET CREPE THROUGDRY PROCESS :  
FOR MAKING ABSORBENT SHEET :  
AND NOVEL FIBROUS PRODUCTS :  
-----

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ This information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application. Or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 50-0935.
  
- ☐ This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.311, whichever occurs first.
  - ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;
  
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  - ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97 (c) is authorized.

### Patents

1. U.S. Patent No. 3,301,746, issued January 31, 1967, entitled "Process for Forming Absorbent Paper by Imprinting a Fabric Knuckle Pattern Thereon Prior to Drying and Paper Thereof", of *L.H. Sanford et al.*;
2. U.S. Patent No. 3,432,936, issued March 18, 1969, entitled "Transpiration Drying and Embossing of Wet Paper Webs", of *R.I. Cole et al.*;
3. U.S. Patent No. 3,507,745, issued April 21, 1970, entitled "Doctor Blade Mechanism", of *M.J. Fuerst*;
4. U.S. Patent No. 3,994,771, issued November 30, 1976, entitled "Process for Forming a Layered Paper Web Having Improved Bulk, Tactile Impression and Absorbency and Paper Thereof", of *Morgan, Jr. et al.*;
5. U.S. Patent No. 4,102,737, issued July 25, 1978, entitled "Process and Apparatus for Forming a Paper Web Having Improved Bulk and Absorptive Capacity", of *W.J. Morton*;
6. U.S. Patent No. 4,356,059, issued October 26, 1982, entitled "High Bulk Papermaking System", of *R.E. Hostetler*;
7. U.S. Patent No. 4,440,597, issued April 3, 1984, entitled "Wet-Microcontracted Paper and Concomitant Process", of *E.R. Wells et al.*;
8. U.S. Patent No. 4,443,299, issued April 17, 1984, entitled "Apparatus and Method for the Manufacture of a Non-Woven Fibrous Web", of *J.O. Cheshire et al.*;
9. U.S. Patent No. 4,448,638, issued May 15, 1984, entitled "Paper Webs Having High Bulk and Absorbency and Process and Apparatus for Producing The Same", of *B.G. Klowak*;
10. U.S. Patent No. 4,462,868, issued July 31, 1984, entitled "Paper Web Drying apparatus Having a Hood With Two Sections", of *Oubridge et al.*;
11. U.S. Patent No. 4,529,480, issued July 16, 1985, entitled "Tissue Paper", of *P.D. Trokhan*;
12. U.S. Patent No. 4,543,156, issued September 24, 1985, entitled "Method for Manufacture of a Non-Woven Fibrous Web", of *J.O. Cheshire et al.*;
13. U.S. Patent No. 4,689,119, issued August 25, 1987, entitled "Apparatus for Treating Web Material", of *S.B. Weldon*;
14. U.S. Patent No. 4,764,253, issued August 16, 1988, entitled "Method for Controlling Feed of Foamed Fiber Slurries", of *J.O. Cheshire et al.*;

15. U.S. Patent No. 5,164,045, issued November 17, 1992, entitled "Soft, High Bulk Foam-Formed Stratified Tissue and Method for Making Same", of *A.O. Awofeso et al.*;
16. U.S. Patent No. 5,200,035, issued April 6, 1993, entitled "High Uniformity Foam Forming", of *D.M. Bhat et al.*;
17. U.S. Patent No. 5,232,555, issued August 3, 1993, entitled "Wet Cellulosic Web Transfer Method Using Air Doctor Blade", of *R. Daunais et al.*;
18. U.S. Patent No. 5,336,373, issued August 9, 1994, entitled "Method for Making a Strong, Bulky, Absorbent Paper Sheet Using Restrained Can Drying", of *T.F. Scattolino et al.*;
19. U.S. Patent No. 5,411,636, issued May 2, 1995, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *M.A. Hermans et al.*;
20. U.S. Patent No. 5,494,554, issued February 27, 1996, entitled "Method for Making Soft Layered Tissues", of *S.L. Edwards et al.*;
21. U.S. Patent No. 5,495,678, issued March 5, 1996, entitled "Drying Module and Dryer Sections That Make Use Of Same, In Particular For A High-Speed Paper Machine", of *Ilmarinen et al.*;
22. U.S. Patent No. 5,505,818, issued April 9, 1996, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *M.A. Hermans et al.*;
23. U.S. Patent No. 5,510,002, issued April 23, 1996, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *M.A. Hermans et al.*;
24. U.S. Patent No. 5,512,139, issued April 30, 1996, entitled "Method and Device for Making Tissue", of *B.J. Worcester*;
25. U.S. Patent Nos. 5,607,551, issued March 4, 1997, entitled "Soft Tissue" of *T.E. Farrington, Jr. et al.*;
26. U.S. Patent No. 5,738,760, issued April 14, 1998, entitled "Method of an a Device for Transferring Running Dried Web from One Device to a Subsequent Device", of *T.O.S. Svanqvist et al.*;
27. U.S. Patent No. 5,851,353, issued December 22, 1998, entitled "Method for Wet Web Molding and Drying", of *M.W. Fiscus et al.*;
28. U.S. Patent No. 5,865,955, issued February 2, 1999, entitled "Method and Device for Enhancing the Run of a Paper Web in a Paper Machine", of *H. Ilvespää et al.*;

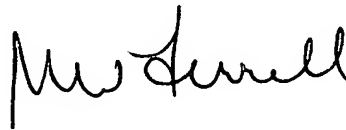
29. U.S. Patent No. 5,891,309, issue April 6, 1999, entitled "Web Stabilizing Device", of *R.E. Page et al.*;
30. U.S. Patent No. 5,968,590, issued October 19, 1999, entitled "Method for Drying a Surface-Treated Paper Web in an After-Dryer of a Paper Machine and After-Dryer of a Paper Machine", of *P. Ahonen et al.*;
31. U.S. Patent No. 6,001,421, issued December 14, 1999, entitled "Method for Drying Paper and a dry End of a Paper Machine", of *P. Ahonen et al.*;
32. U.S. Patent No. 6,036,820, issued March 14, 2000, entitled "Shoe Press Unit", of *C. Schiel et al.*;
33. U.S. Patent No. 6,119,362, issued September 19, 2000, entitled "Arrangements for Impingement Drying and/or Through-Drying of a Paper or Material Web", of *H. Sundqvist*;
34. U.S. Patent No. 6,210,528, issued April 3, 2001, entitled "Process of Making Web-Creped Imprinted Paper", of *R.I. Wolkowicz*;
35. Reissue Patent No. 28,459, reissued July 1, 1975, entitled "Transpiration Drying and Embossing of Wet Paper Webs", of *R.I. Cole et al.*;
36. British Publication No. 2 303 647 A, published February 26, 1997, entitled "Wet-Resilient Absorbent Structures", of *F-J Chen et al.*;
37. WIPO Publication No, WO 96/09435, published April 3, 1996, entitled "Wet-Resilient Webs", of *F-J Chen et al.*;
38. Canadian Patent No. 2,053,505, issued April 13, 1999, entitled "Foam Forming Method and Apparatus", of *J.H. Dwiggin et al.*;
39. Canadian Application No. 2,197,485, filed February 12, 1997, entitled "Wet-Resilient Webs and Disposable Articles Made Therewith", of *F-J Chen et al.*; and
40. Canadian Application No. 2,241,820, filed July 31, 1998, entitled "Wet-Resilient Webs and Disposable Articles Made Therewith", of *F-J. Chen et al.*

#### **Publications / Abstracts**

1. "Total Machine Concept and Considerations for Thru-Air-Dried Tissue Paper", EUCEPA 24<sup>th</sup> Conf. Proc. F(Stockholm), Pap. Technol.: 310-320 (May 8-11, 1990), of *B.K.G. Glifberg et al.*;
2. "Economic Considerations in Through-Air Drying", Pap. News (Valmet) 6, no. 1: 15-16 (1990), of *R.A. Parker*;

3. "Convective Heat Transfer Under Turbulent Impinging Slot Jet at Large Temperature Differences", Drying '85 (Toei & Mujumdar, eds.)/Proc. Int. Drying Symp. (Kyoto) 4<sup>th</sup>: 354-359 (July 9-12, 1984); c1985 Hemisphere Publ. Co.), of *D. Das et al.*;
4. "Intensification of Paper Web Dewatering and Drying", Przegląd Papier, 45, no. 11: 402-404 (Nov. 1979), of *W. Kawka et al.*;
5. "Some Problems of Blow-Through Drying of Porous Papers", Przegląd Papier, 33, no. 8: 299-305 (Aug. 1977), of *W. Kawka et al.*
6. "Through-Dryer Adds New Life to Old Yankee Machine at Cascade Paper", Pulp & Paper, September 1978, pp.78-79, of *M. Browning*;
7. "Air Permeability of Parachute Cloths", Textile Research Journal, April 1995, pp. 296-313, of *M.J. Goglia et al.*;
8. "Fluid Flow Through Porous Metals", Journal of Applied Mechanics, March, 1951, pp. 39-45, of *L. Green et al.*;
9. "Flavor Characterization to Fuel Cells", Kirk-Othmer, Encyclopedia of Chemical Technology, 4<sup>th</sup> Edition, Volume 11, p. 190; and
10. "Fluid and Particle Dynamics", Perry's Chemical Engineers' Handbook,, 7<sup>th</sup> Edition, pp. 6-38 through 6-39.

Respectfully submitted,



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 July 15, 2004

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**

Applicant(s): Steven L. Edwards et al.

Docket No.

2196-1A (FJ-99-41A)

Application No.

10/806,792

Filing Date

March 23, 2004

Examiner

UNKNOWN

Customer No.

40256

Group Art Unit

1731

Invention: **WET CREPE THROUGH DRY PROCESS FOR MAKING ABSORBENT SHEET AND NOVEL FIBROUS PRODUCTS**

JUL 19 2004

I hereby certify that this **IDS, w/references, PTO-1449 and return postcard**

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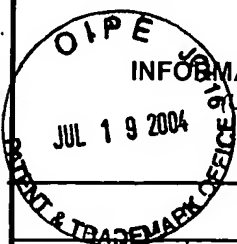
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**Carol R. Maddaloni**

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 <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p>				ATTY DOCKET NO. <b>2196-1A (FJ-99-41A)</b>		APPLICATION NO. <b>10/806,792</b>		
				APPLICANT(S) <b>Steven L. Edwards et al.</b>				
				FILING DATE <b>March 23, 2004</b>		GROUP ART UNIT <b>1731</b>		
				<b>U.S. PATENT DOCUMENTS</b>				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		U.S. Patent 3,301,746	1/31/67	Sanford et al.	162	113		
		U.S. Patent 3,432,936	3/18/69	Cole et al.	34	6		
		U.S. Patent 3,507,745	4/21/70	Fuerst	162	281		
		U.S. Patent 3,994,771	11/30/76	Morgan, Jr. et al.	162	113		
		U.S. Patent 4,102,737	7/25/78	Morton	162	113		
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		GB 2 303 647 A	2/26/97	Great Britain	D21H	21/20	✓	
		WO96/09435	4/3/96	PCT	D21H	11/08	✓	
		CA 2053505	4/18/92	Canada	D21F	11/00	✓	
		CA 2197485	9/8/97	Canada	D21F	3/02	✓	
		CA 2241820	2/15/99	Canada	D21H	15/00	✓	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
		"Total Machine Concept and Considerations for Thru-Air-Dried Tissue Paper", EUCEPA 24th Conf. Proc. F(Stockholm), Pap. Technol.: 310-320 (May 8-11, 1990), of B.K.G. Glifberg et al.; "Economic Considerations in Through-Air Drying", Pap. News (Valmet) 6, no. 1: 15-16 (1990), of R.A. Parker; "Convective Heat Transfer Under Turbulent Impinging Slot Jet at Large Temperature Differences", Drying '85 (Toei & Mujumdar, eds.)/Proc. Int. Drying Symp. (Kyoto) 4th: 354-359(July 9-12,1984); c1985Hemisphere Publ. Co.), of D. Das et al;						
		"Intensification of Paper Web Dewatering and Drying", Przegląd Papier, 45, no. 11: 402-404 (Nov. 1979), of W. Kawka et al.; "Some Problems of Blow-Through Drying of Porous Papers", Przegląd Papier, 33, no. 8: 299-305 (Aug. 1977), of W. Kawka et al.;						
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								



<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. <b>2196-1A (FJ-99-41A)</b>		APPLICATION NO. <b>10/806,792</b>	
				Steven L. Edwards et al.			
				FILING <b>March 23, 2004</b>		GROUP ART <b>1731</b>	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	U.S. Patent 4,356,059	10/26/82	Hostetler	162	111		
	U.S. Patent 4,440,597	4/3/87	Wells et al.	162	111		
	U.S. Patent 4,443,299	4/17/87	Cheshire et al.	162	264		
	U.S. Patent 4,448,638	5/15/84	Klowak	162	112		
	U.S. Patent 4,462,868	7/31/84	Oubridge et al.	162	280		

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			"Through-Dryer Adds New Life to Old Yankee Machine at Cascade Paper", Pulp & Paper, September 1978, pp.78-79, of M. Browning; "Air Permeability of Parachute Cloths", Textile Research Journal, April 1995, pp. 296-313, of M.J. Goglia et al.; "Fluid Flow Through Porous Metals", Journal of Applied Mechanics, March, 1951, pp. 39-45, of L. Green et al.;
			"Flavor Characterization to Fuel Cells", Kirk-Othmer, Encyclopedia of Chemical Technology, 4th Edition, Volume 11, p. 190; and "Fluid and Particle Dynamics", Perry's Chemical Engineers' Handbook,, 7th Edition, pp. 6-38 through 6-39

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		U.S. Patent 4,529,480	7/16/84	Trokhan	162	109		
		U.S. Patent 4,543,156	9/24/85	Cheshire et al.	162	101		
		U.S. Patent 4,689,119	8/25/87	Weldon	162	281		
		U.S. Patent 4,764,253	8/16/88	Cheshire et al.	261	198		
		U.S. Patent 5,164,045	11/17/92	Awofeso et al.	162	101		
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							YES	NO
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		U.S. Patent 5,200,035	4/6/93	Bhat et al.	162	101	
		U.S. Patent 5,232,555	8/3/93	Daunais et al.	162	193	
		U.S. Patent 5,336,373	8/9/94	Scattolino et al.	162	116	
		U.S. Patent 5,411,636	5/2/95	Hermans et al.	162	109	
		U.S. Patent 5,494,554	2/27/96	Edwards et al.	162	111	

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	U.S. Patent 5,495,678	3/5/96	Ilmarinen et al.	34	117	
	U.S. Patent 5,505,818	4/9/96	Hermans et al.	162	113	
	U.S. Patent 5,510,002	4/23/96	Hermans et al.	162	113	
	U.S. Patent 5,512,139	4/30/96	Worcester	162	111	
	U.S. Patent 5,607,551	3/4/97	Farrington, Jr. et al.	162	109	

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						YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


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	Applicant(s) <b>Steven L. Edwards et al.</b>	
	Filing Date <b>March 23, 2004</b>	Group Art Unit <b>1731</b>

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		U.S. Patent 5,738,760	4/14/98	Svanqvist, T.O.S. et al.	162	193	
		U.S. Patent 5,851,353	12/22/98	Fiscus et al.	162	113	
		U.S. Patent 5,865,955	2/2/99	Ilvespaa et al.	162	207	
		U.S. Patent 5,891,309	4/6/99	Page et al.	162	281	
		U.S. Patent 5,968,590	10/19/99	Ahonen et al.	427	209	

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		U.S. Patent 6,001,421	12/14/99	Ahonen et al.	427	316	
		U.S. Patent 6,036,820	3/14/00	Schiel et al.	162	358.3	
		U.S. Patent 6,119,362	9/19/00	Sundqvist	34	120	
		U.S. Patent 6,210,528	4/3/01	Wolkowicz	162	111	
		RE 28,459	7/1/75	Cole et al.	34	6	

## U.S. PATENT APPLICATION PUBLICATIONS

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## FOREIGN PATENT DOCUMENTS

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